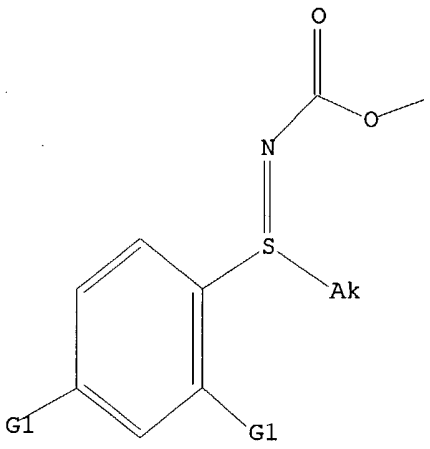
10/777,244

(FILE 'HOME' ENTERED AT 21:50:37 ON 10 DEC 2004)

FILE 'REGISTRY' ENTERED AT 21:51:24 ON 10 DEC 2004
L1 STRUCTURE UPLOADED

=> D L1
L1 HAS NO ANSWERS
L1 STR



G1 MeO,EtO,n-PrO,i-PrO,n-BuO,i-BuO,s-BuO,t-BuO,NO2,H,X

Structure attributes must be viewed using STN Express query preparation.

=> S L1
SAMPLE SEARCH INITIATED 21:51:49 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 369 TO ITERATE

100.0% PROCESSED 369 ITERATIONS 3 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 6228 TO 8532
PROJECTED ANSWERS: 3 TO 162

L2 3 SEA SSS SAM L1

=> S L1 FULL
FULL SEARCH INITIATED 21:51:53 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 7654 TO ITERATE

100.0% PROCESSED 7654 ITERATIONS 56 ANSWERS
SEARCH TIME: 00.00.01

L3 56 SEA SSS FUL L1

=> FIL CAPLUS
COST IN U.S. DOLLARS SINCE FILE ENTRY TOTAL SESSION
FULL ESTIMATED COST 155.42 155.63

FILE 'CAPLUS' ENTERED AT 21:51:58 ON 10 DEC 2004
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

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FILE COVERS 1907 - 10 Dec 2004 VOL 141 ISS 25
FILE LAST UPDATED: 9 Dec 2004 (20041209/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

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=> S L3/PREP
            27 L3
       3233278 PREP/RL
L4          25 L3/PREP
                (L3 (L) PREP/RL)

=> S L4 AND AZIDE
         39169 AZIDE
L5           7 L4 AND AZIDE

=> D 1-7 BIB ABS

L5   ANSWER 1 OF 7  CAPLUS  COPYRIGHT 2004 ACS on STN
AN   2004:716150  CAPLUS
DN   141:235107
TI   Method of producing optically active sulfimide compounds
IN   Katsuki, Tsutomu; Tamura, Yusuke; Uchida, Tatsuya
PA   Kyushu University, Japan
SO   Eur. Pat. Appl., 10 pp.
     CODEN: EPXXDW
DT   Patent
LA   English
FAN.CNT 1
     PATENT NO.          KIND   DATE        APPLICATION NO.         DATE
     ---------------     ----   --------    --------------------    --------
PI   EP 1452523          A2     20040901    EP 2004-250921          20040220
     EP 1452523          A3     20040929
         R:  AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
             IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK, HR
     JP 2004277398       A2     20041007    JP 2003-310132          20030902
     US 2004230077       A1     20041118    US 2004-777244          20040213
PRAI JP 2003-47744       A      20030225
     JP 2003-310132      A      20030902
OS   MARPAT 141:235107
GI
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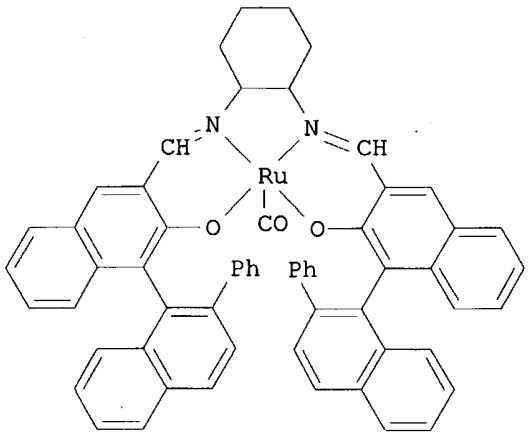

AB An optically active sulfimide compound is produced by using a specified Ru(salen)(CO) complex I as a catalyst by subjecting a specified alkyl aryl sulfide compound to an asym. sulfimidation with a specified **azide** compound having an easily eliminating group. For example, sulfimidation of PhSMe with N-butoxycarbonyl **azide** gave the corresponding optically active sulfimide in 18 % yield.

L5 ANSWER 2 OF 7 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2003:262840 CAPLUS
DN 139:100713
TI Highly enantioselective (OC)Ru(salen)-catalyzed sulfimidation using N-alkoxycarbonyl **azide** as nitrene precursor
AU Tamura, Yuusuke; Uchida, Tatsuya; Katsuki, Tsutomu
CS Faculty of Science, Department of Chemistry, Kyushu University, Higashi-ku, Fukuoka, 812-8581, Japan
SO Tetrahedron Letters (2003), 44(16), 3301-3303
CODEN: TELEAY; ISSN: 0040-4039
PB Elsevier Science Ltd.
DT Journal
LA English
OS CASREACT 139:100713
AB Enantioselective imidation of alkyl aryl sulfides with N-alkoxycarbonyl **azide** as a nitrene precursor was effected by using (OC)Ru(salen) complex as catalyst. The steric and electronic nature of the N-alkoxycarbonyl group was found to strongly affect the enantioselectivity and the reaction rate, and high enantioselectivity (up to 99% ee) and good chemical yields were achieved by using 2,2,2-trichloro-1,1-dimethylethoxycarbonyl **azide** as the nitrene precursor at room temperature
RE.CNT 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 3 OF 7 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2001:674578 CAPLUS
DN 136:102168
TI Ru(salen)-catalyzed asymmetric sulfimidation using arylsulfonyl **azide**
AU Murakami, M.; Uchida, T.; Katsuki, T.
CS Graduate School, Faculty of Science, Department of Chemistry, Kyushu University 33, CREST, JST (Japan Science and Technology), Hakozaki, Higashi-ku, Fukuoka, 812-8581, Japan
SO Tetrahedron Letters (2001), 42(40), 7071-7074
CODEN: TELEAY; ISSN: 0040-4039
PB Elsevier Science Ltd.

DT Journal
LA English
OS CASREACT 136:102168
AB An (OC)Ru(II)(salen) complex was found to catalyze imidation of alkyl aryl sulfides in the presence of arylsulfonyl **azide** with high enantioselectivity as well as good chemical yield.
RE.CNT 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 4 OF 7 CAPLUS COPYRIGHT 2004 ACS on STN
AN 1999:447558 CAPLUS
DN 131:214396
TI The search for benchrotrenes and ferrocenes containing a chiral sulfoximido group. Preparation and structural properties
AU Bolm, Carsten; Muniz, Kilian; Aguilar, Nuria; Kesselgruber, Martin; Raabe, Gerhard
CS Institut Organische Chemie, RWTH, Aachen, D-52074, Germany
SO Synthesis (1999), (7), 1251-1260
CODEN: SYNTBF; ISSN: 0039-7881
PB Georg Thieme Verlag
DT Journal
LA English
OS CASREACT 131:214396
AB Syntheses of chiral benchrotrene and ferrocene complexes bearing N-protected sulfonimidoyl moieties are reported. They were obtained by metal-catalyzed imination reactions starting from enantiopure sulfoxides. An x-ray structure anal. was carried out for one of the novel complexes confirming the stereospecificity of the imination process.
RE.CNT 62 THERE ARE 62 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 5 OF 7 CAPLUS COPYRIGHT 2004 ACS on STN
AN 1999:281299 CAPLUS
DN 131:58629
TI The preparation of N-tert-butyloxycarbonyl-(Boc-)protected sulfoximines and sulfimines by an iron(II)-mediated nitrene transfer from BocN3 to sulfoxides and sulfides
AU Bach, Thorsten; Korber, Christina
CS Fachbereich Chemie, Philipps-Univ., Marburg, D-35032, Germany
SO European Journal of Organic Chemistry (1999), (5), 1033-1039
CODEN: EJOCFK; ISSN: 1434-193X
PB Wiley-VCH Verlag GmbH
DT Journal
LA English
OS CASREACT 131:58629
AB The imidation of sulfides and sulfoxides to the corresponding sulfimides and sulfoximides was carried out with Me3CO2CN3 (BocN3) in the presence of FeCl2. Sulfoxides reacted at room temperature in CH2Cl2 to give the corresponding sulfoximides in 40-95% yield. The imidation of the sterically congested Me3C(Me)S:O proceeded sluggishly (10% yield). The stereospecificity of the reaction was demonstrated with enantiomerically enriched (R)-(+)-PhMeS:O and (S)-(-)-PhCH2(Me)S:O which yielded the corresponding sulfoximides with retention of configuration. Mechanistically, an intermediate nitrene Fe(IV) complex is postulated as the reactive nitrene transfer reagent which is formed from FeCl2 and BocN3. The more nucleophilic sulfides reacted more readily in the imidation than sulfoxides. Their conversion to the corresponding sulfimides was conducted with BocN3 and 0.25 equiv FeCl2 in yields of 44-92%. In an alternative reaction mode, BocN3 was utilized at 0° in the presence of FeCl2 and Ac2CH2. The sulfimidation, which did not otherwise occur at this temperature, was accelerated by the ligand (36-90% yield).

RE.CNT 117 THERE ARE 117 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 6 OF 7 CAPLUS COPYRIGHT 2004 ACS on STN
AN 1998:435231 CAPLUS
DN 129:148598
TI Iron(II)-mediated nitrene transfer from t-butyloxycarbonyl **azide** (BocN3) to sulfoxides, sulfides, and ketene acetals
AU Bach, Thorsten; Korber, Christina
CS Fachbereich Chemie der Philipps-Universitat Marburg, Marburg, D-35032, Germany
SO Tetrahedron Letters (1998), 39(28), 5015-5016
CODEN: TELEAY; ISSN: 0040-4039
PB Elsevier Science Ltd.
DT Journal
LA English
OS CASREACT 129:148598
AB The nitrene transfer from BocN3 to several nucleophiles is promoted by FeCl2 and yields the corresponding N-Boc protected sulfoximides, sulfimides, or α-aminoalkanoates. Whereas the sulfoximide formation occurs spontaneously in CH2Cl2 as solvent the FeCl2-catalyzed nitrene transfer to sulfides and ketene acetals requires addition of a polar solvent. DMF was found to be best suited for this purpose.
RE.CNT 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 7 OF 7 CAPLUS COPYRIGHT 2004 ACS on STN
AN 1972:72227 CAPLUS
DN 76:72227
TI Herbicidal and pesticidal sulfoximine derivatives
IN Kirby, Peter; Whitaker, Kenneth E.
PA Shell Internationale Research Maatschappij N. V.
SO Ger. Offen., 35 pp.
CODEN: GWXXBX
DT Patent
LA German
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 2129678	A	19711230	DE 1971-2129678	19710615
	GB 1307271	A	19730214	GB 1970-30895	19700625
	NL 7108165	A	19711228	NL 1971-8165	19710615
	FR 2096478	A5	19720218	FR 1971-21678	19710615
	FR 2096478	B1	19740621		
	CH 554635	A	19741015	CH 1971-8737	19710615
PRAI	GB 1970-30895		19700625		

AB Title compds. (.apprx.60) were prepared Thus, 11 g 2,4-Cl(O2N)-C6H3SOMe in 200 ml CHCl2 and 20 ml H2%sO4 was treated with 6.5 g NaN3 over 3 hr at 48-55° to give 2,4-Cl(O2%n)C6H3S(O)-(:NH)Me. p-ClC6H4S(O)(:NH)Me was treated with fuming H2SO4 and fuming HNO3 at 5-15°, and the mixture heated 6 hr at 30-5° to give 4,3-Cl(O2N)C6H3S(O)(:NH)Me. Biol. test data (herbicidal, acaricidal, insecticidal) were given.